# Storage SuperServer SSG-640SP-DE2CR60

4U 2-node high availability top-loading storage server with 60 hot-swap 3.5" SAS/SATA bays and PCIe 4.0

More details here

## Key Applications

Big Data & Analytics, Data Lake, HPC and AI/ML Workloads, Telco & Cloud Service Providers, Financial Services & Healthcare Image Archives, Content Repositories, Government Data Protection,



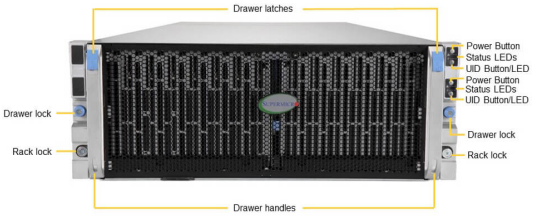
## Key Features

- Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores Per Node;
- 16 ECC DDR4-3200: LRDIMM/RDIMM;
- 3 x PCIe 4.0 x16 HHHL PCIe slots;
- 60 3.5"/2.5" Hot-swap SAS3 drives, 2x Fixed slim SATA SSD, 2x NVMe M.2 (form factor: 2280 and 22110);
- 6x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 2600W Redundant Power Supplies Titanium Level (96%);
- Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN HBA Controller support via Broadcom® 3616;
- Dedicated node to node connectivity featuring high performance NTB PCIe 4.0 x16 , 1G private Ethernet, and IPMI for robust node fail-over support;
- Two hot-pluggable systems (nodes) in a 4U form factor. Each node supports the following:;

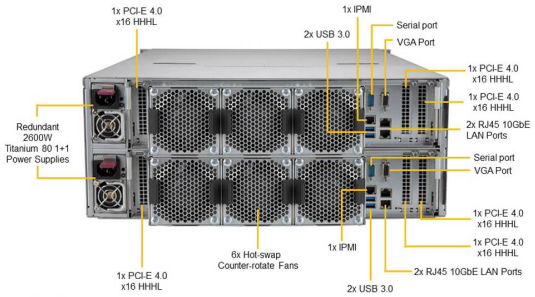
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|---|---|
| Form Factor | 4U Rackmount<br>Enclosure: (17.6" x 7" x 34.1")<br>Package: (31.89" x 29.92" x 44.88") |
| Processor | Dual Socket P+ (LGA-4189)<br>3rd Gen Intel® Xeon® Scalable processors<br>Up to 36C/72T; Up to 54MB Cache per CPU |
| System Memory | Slot Count: 16 DIMM slots<br>Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM |
| Drive Bays Configuration | Default: Total 62 bay(s)<br>• 2 internal fixed 2.5" SATA drive bay(s)<br>• 60 top-loading hot-swap 3.5"/2.5" SAS/SATA drive bay(s)<br>M.2: 2 M.2 NVMe slot(s) (M-key 2280/22110) |
| Expansion Slots | Default<br>• 3 PCIe 4.0 x16 LP slot(s) |
| On-Board Devices | Chipset: Intel® C621A<br>Network Connectivity: 2 RJ45 10GBASE-T |
| Input / Output | LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s)<br>2 RJ45 10 GBASE-T LAN port(s)<br>USB: 2 USB 3.0 port(s) (rear)<br>Video: 1 VGA port(s)<br>DOM: 2 SuperDOM (Disk on Module) port(s) |

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(Front View – System)




(Rear View – System)




| | |
|---|---|
| System Cooling | Fans: 6 Heavy Duty 8cm Fan(s) |
| Power Supply | 2x 2600W Redundant Titanium Level (96%) Hot-plug power supplies |
| System BIOS | BIOS Type: AMI 128MB SPI Flash EEPROM |
| Management | SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New! |
| PC Health Monitoring | CPU: Monitors for CPU Cores, Chipset Voltages, Memory<br>4+1 Phase-switching voltage regulator<br>FAN: Fans with tachometer monitoring<br>Status monitor for speed control<br>Pulse Width Modulated (PWM) fan connectors<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 170.5 lbs (77.3 kg)<br>Net Weight: 118 lbs (53.5 kg)<br>Available Color: Black |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (Non-Condensing)<br>Non-operating Relative Humidity: 5% to 95% (Non-Condensing) |
| Motherboard | **Super X12DSC-6** |
| Chassis | **CSV-947STS-R2K63P** |

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